

5
C L A I M S

What is claimed is:

1. Breaching apparatus comprising:
 - a housing constructed of a material that disintegrates upon explosion without significant amounts of fragments being given off; and
 - an explosive element disposed in said housing capable of producing an explosive force sufficient for breaching a structure.
2. The breaching apparatus according to claim 1, wherein said housing is constructed of a flexible polymeric material.
3. The breaching apparatus according to claim 1 or claim 2, wherein said housing comprises internal partitions spaced from one another, and said explosive element comprises a layer of a flexible explosive element disposed between said partitions and wrapped around at least one of said partitions.
4. The breaching apparatus according to claim 3, wherein at least one of said partitions substantially prevents adjacent windings of said explosive element from blowing up one another.
5. The breaching apparatus according to claim 3, further comprising a plurality of layers of said explosive element placed one above another.
6. The breaching apparatus according to claim 3, further comprising a detonator device placed adjacent and coplanar to said explosive element.
7. The breaching apparatus according to claim 3, wherein said housing is constructed of two halves.
8. The breaching apparatus according to claim 7, wherein said two halves are attached to one another by a press fit.
9. The breaching apparatus according to claim 1, wherein said housing comprises an attachment device for attachment to a structure to be breached.
10. The breaching apparatus according to claim 9, wherein said attachment device comprises at least one of a multiple hook fastener, a vacuum attachment device, a magnetic fastener, a double-sided adhesive, and a spike.
11. The breaching apparatus according to claim 1, wherein said housing comprises a fastener for attachment to a robotic arm.
12. The breaching apparatus according to claim 1, wherein said housing comprises a box-like structure with at least one hollow chamber in which said explosive element is disposed.

13. The breaching apparatus according to claim 12, wherein said at least one hollow chamber is positioned closer to a first surface of said housing that is attachable to a structure to be breached than to a second surface of said housing opposite to said first surface.
14. The breaching apparatus according to claim 12, further comprising a tray attached to said housing, wherein an explosive device is disposed between said tray and said housing.
15. The breaching apparatus according to claim 12, wherein said explosive element is at least partially enveloped in a sheath.
16. The breaching apparatus according to claim 15, wherein said sheath is operative to increase energy needed for said explosive element to explode.
17. The breaching apparatus according to claim 15, wherein said explosive element comprises an elongate detonating cord operatively connected to a sleeve housing, which is connected to a detonator housing in which another explosive element is disposed.